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June 2. "Vacant-lot Gardening," by Mr. Carl Bannwart.

June 9. "Garden Roses," by Professor A. C. Beal.

(Exhibition of Roses and Peonies, June 9 and 10.)

June 16. "The Seaweeds of New York and Vicinity," by Dr. M. A. Howe.

June 23. "Lillies for Everybody," by Mr. Arthur Herrington.

June 30. "The Food Value of Wild Mushrooms," by Dr. W. A. Murrill.

WE learn from the *Fisheries Service Bulletin* that in the early part of September the *Fish Hawk* made another cruise in Chesapeake Bay for the purpose of ascertaining the abundance and quality of the hydroid, or "sea moss," material available at this season. A Baltimore manufacturer of sea-moss articles accompanied the vessel. While the growth is not of the best quality at this season, abundant supplies were obtained, and the manufacturer expressed himself as well satisfied with the opportunity for a commercial fishery. On the conclusion of this trip the eighth regular cruise of the Chesapeake Bay investigation was completed. During the latter part of August the schooner *Grampus* left Norfolk, Va., to continue investigations in Atlantic coast waters, in charge of W. W. Welsh. A line of hydrographic stations was first made from Cape Henry to the gulf stream. About twenty miles southeast by east from Cape Henry a good haul of croakers was made with a small otter trawl, suggesting the possible use of this type of net for the capture of this species. Samples of sargassum weed were obtained for analysis in regard to the possible use of this material as a source of potash, and possibly of iodine and bromine. The vessel then proceeded to Cape May, N. J., and an examination was made of the pound nets in the vicinity of Five Fathom Bank. Observations were continued between Cape May and Gloucester, Mass. At the latter point a shortage of seamen made it necessary to tie up the vessel, and the work that had been planned for the Gulf of Maine was, therefore, abandoned.

#### UNIVERSITY AND EDUCATIONAL NEWS

PLANS are now being prepared for a new chemistry building at the Montana State Col-

lege to replace the one burned down last October.

FIVE departments of fellowships in mining and metallurgical research, each valued at \$720 for a year of twelve months, are offered by the College of Mines of the University of Washington in cooperation with the federal Bureau of Mines.

DR. EDWARD M. FREEMAN, assistant dean of the department of agriculture of the University of Minnesota, has been offered the deanship of the college of agriculture of the University of Arizona, at Tucson.

THE following instructors at Wellesley College have been advanced to assistant professorships: Mabel A. Stone, botany; Helen S. French, chemistry, and Sarah R. Davis, hygiene.

DR. HOWARD PARSHLEY, who has been working at the Bussey Institution, Harvard University, has been appointed assistant professor of zoology at Smith College.

FRED T. ROGERS, Ph.D., assistant professor of physiology in Baylor University, Waco, Texas, has been appointed to an instructorship in physiology at the University of Chicago.

J. F. REILLY has been promoted to an associate professorship of mathematics at the State University of Iowa.

VICTOR E. RECTOR, principal of the Antioch Industrial School near Hartsville, S. C., and a member of the House of Representatives, has been elected professor of agriculture at the University of South Carolina.

#### DISCUSSION AND CORRESPONDENCE THE VARIETAL RELATIONS OF CROWN GALL

THE disease known as crown gall and hairy root has been the subject of much experimental inquiry. It has long been known that there were several forms of this disease appearing on apple trees and for some time it was a question whether these several forms were due to the same causal organism. There have been recognized a hard and a soft form of crown gall and the simple, woolly knot, broom root and aerial forms of hairy root.<sup>1</sup>

<sup>1</sup> Hedgecock, Bureau of Plant Industry, Bulletin 186.